

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	14	((measur\$5 sens\$3 detect\$3 monitor\$3) near3 current near3 (electro adj kinetic))	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/09/27 21:20
L2	3	I1 and (current near3 threshold)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/09/27 21:21
L3	13163	((measur\$5 sens\$3 detect\$3 monitor\$3) near3 current) and (current near3 threshold)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/09/27 21:24
L4	241	3 and (count near3 threshold)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/09/27 21:22
L5	16	4 and (second near3 electrode)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/09/27 21:22
L6	4	((measur\$5 sens\$3 detect\$3 monitor\$3) near3 (arc\$3 current)) and (current near3 threshold) and (electro adj kinetic)	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/09/27 21:27
L7	0	361/93.1.ccls. and (electro adj kinetic) and (arc near3 (sens\$3 detect\$3 determin\$4 protect\$4))	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/09/27 21:28
L8	0	361/93.1.ccls. and (electro adj kinetic) and ((current arc) near3 (sens\$3 detect\$3 determin\$4 protect\$4))	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/09/27 21:28
L9	1	324/509,522.ccls. and (electro adj kinetic) and ((current arc) near3 (sens\$3 detect\$3 determin\$4 protect\$4))	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/09/27 21:29
S1	67	("375"/\$.ccls.) and (charg\$3 near3 pump\$3 near3 loop) and (phase near lock near loop)	USPAT	OR	OFF	2005/07/08 13:49
S2	11	((electro\$3 adj kinetic) near3 air near3 condition\$3)	USPAT	OR	OFF	2004/12/28 07:42
S3	0	S2 and (arc near3 (suppress\$3))	USPAT	OR	OFF	2004/12/28 07:42
S4	0	S2 and (arc near3 (suppress\$3 measur\$3 sens\$3 detect\$3 determin\$4 moniter\$3))	USPAT	OR	OFF	2004/12/28 07:42
S5	0	S2 and (arc\$3 near3 (suppress\$3 measur\$3 sens\$3 detect\$3 determin\$4 moniter\$3))	USPAT	OR	OFF	2004/12/28 07:43
S6	8	(electro\$3 adj kinetic) and (arc\$3 near3 (suppress\$3 measur\$3 sens\$3 detect\$3 determin\$4 moniter\$3))	USPAT	OR	OFF	2004/12/28 08:01

S7	0	S6 and (current near3 threshold\$1)	USPAT	OR	OFF	2004/12/28 07:44
S8	0	S6 and ((voltage current) near3 (count\$3 threshold\$1))	USPAT	OR	OFF	2004/12/28 08:01
S9	16	(electro\$3 near3 kinetic) and (arc\$3 near3 (suppress\$3 measur\$3 sens\$3 detect\$3 determin\$4 moniter\$3))	USPAT	OR	OFF	2004/12/28 08:01
S10	2	S9 and ((voltage current) near3 (count\$3 threshold\$1))	USPAT	OR	OFF	2004/12/28 08:04
S11	62	"6504308".pn. "6471753".pn. "6447587".pn. "6391259".pn. "6379427".pn. "6373723".pn. "6372097".pn. "6362604".pn. "6350417".pn. "6328791".pn. "6315821".pn. "6312507".pn. "6309514".pn. "6302944".pn. "6282106".pn. "6277248".pn. "6270733".pn. "6252012".pn. "6228149".pn. "6212883".pn. "6193852".pn. "6182671".pn. "6182461".pn. "6176977".pn. "6163098".pn. "6152146".pn. "6149815".pn. "6149717".pn. "6126722".pn. "6118645".pn. "6086657".pn. "6063168".pn. "6042637".pn. "6019815".pn. "5997619".pn. "5975090".pn. "5972076".pn. "5911957".pn. "5893977".pn. "5879435".pn. "5814135".pn. "5779769".pn. "5702507".pn. "5669963".pn. "5667564".pn. "5656063".pn. "5601636".pn. "5578112".pn. "5535089".pn. "5484472".pn. "5378978".pn. "5316741".pn. "5315838".pn. "5302190".pn. "5217504".pn. "5215558".pn. "5196171".pn. "5141529".pn. "5024685".pn. "5010869".pn. "4941068".pn. "4940470".pn.	USPAT	OR	OFF	2004/12/28 08:12
S12	11	((two pair) near3 electrode\$1) and ((measur\$3 sens\$3 detect\$3 determin\$4 monitor\$4) near3 (air gas) near3 (charg\$3 excited) near3 particle\$1)	USPAT	OR	OFF	2004/12/28 08:15
S13	2	S12 and arc\$3	USPAT	OR	OFF	2004/12/28 09:27
S14	11	((electro adj kinetic) near3 air near3 (system device condition\$3)) and ((second pair two) near3 electrode\$1)	USPAT	OR	OFF	2004/12/28 09:36
S15	10	S14 and (arc\$3)	USPAT	OR	OFF	2004/12/28 09:30

S16	0	S15 and (arc\$3 with (suppress\$4 limit\$3 prevent\$3 protect\$3))	USPAT	OR	OFF	2004/12/28 17:05
S17	0	S15 and (current near3 (threshold\$1 limit\$3))	USPAT	OR	OFF	2004/12/28 09:34
S18	0	S15 and ((voltage current) near3 (threshold\$1 limit\$3))	USPAT	OR	OFF	2004/12/28 09:30
S19	0	S15 and (current near3 (count\$3 sampl\$3))	USPAT	OR	OFF	2004/12/28 09:34
S20	11	((electr\$5 adj kinetic) near3 air near3 (system device condition\$3)) and ((second pair two) near3 electrode\$1)	USPAT	OR	OFF	2004/12/28 09:37
S21	11	((electr\$5 near2 (motion stimulat\$4 kinetic)) near3 air near3 (system device condition\$3)) and ((second pair two) near3 electrode\$1)	USPAT	OR	OFF	2004/12/28 09:37
S22	0	S21 and (arc\$3 with (suppress\$4 limit\$3 prevent\$3 protect\$3))	USPAT	OR	OFF	2004/12/28 09:38
S23	0	S21 and (((over near2 current) arc\$3) with (suppress\$4 limit\$3 prevent\$3 protect\$3))	USPAT	OR	OFF	2004/12/28 09:39

S24	117	("2327588" "2359057" "2509548"  "2949550" "3018394" "3026964"  "3518462" "3638058" "3744216"  "3981695" "3984215" "4052177"  "4138233" "4209306" "4227894"  "4231766" "4232355" "4244710"  "4244712" "4259452" "4266948"  "4282014" "4284420" "4318718"  "4342571" "4357150" "4386395"  "4413225" "4445911" "4477263"  "4496375" "4502002" "4509958"  "4516991" "4536698" "4587475"  "4600411" "4601733" "4626261"  "4643745" "4659342" "4674003"  "4689056" "4694376" "4713093"  "4713724" "4726812" "4779182"  "4781736" "4789801" "4808200"  "4811159" "4940470" "4941068"  "5010869" "5024685" "RE33927"  "5141529" "5196171" "5215558"  "5217504" "5302190" "5315838"  "5316741" "5378978" "5484472"  "5484472" "5535089" "5578112"  "5601636" "5656063" "5667564"  "5669963" "5702507" "5779769"  "5814135" "5879435" "5893977"  "5911957" "5972076" "5975090"  "5997619" "6019815" "6042637"  "6063168" "6086657" "6118645"  "6126722" "6149171" "6149815"  "6152146" "6163098" "6176977"  "6182461" "6182671" "6193852"  "6212883" "6228149" "6252012"  "6270733" "6277248" "6282106"  "D449097" "6302944" "D449679"  "6309514" "6312507" "6315821"  "6328791" "6350417" "6362604"  "6372097" "6373723" "6379427"  "6391259" "6447587" "6471753"  "6504308" "20020069760" "2002 0144601" "20020152890" "20020 170435" "20030005824").PN.	USPAT	OR	OFF	2004/12/28 10:30
S25	25	S24 and ("422"/\$.cccls.)	USPAT	OR	OFF	2004/12/28 10:35
S26	5	S25 and (current near3 (control\$4 monitor\$3 sens\$3 detect\$3 determin\$5 evaluat\$4))	USPAT	OR	OFF	2004/12/28 10:44
S27	0	S24 and (current near3 (control\$4 monitor\$3 sens\$3 detect\$3 determin\$5 evaluat\$4)) and (current near3 (count\$3 increment\$3))	USPAT	OR	OFF	2004/12/28 10:45
S28	1	S24 and (current near3 (count\$3 increment\$3))	USPAT	OR	OFF	2004/12/28 10:50
S29	1	"5552125".pn.	USPAT	OR	OFF	2004/12/28 10:48

S30	17	((electro\$5 electrical\$4) near3 condition\$3 near3 air) and ((second pair two) near3 conductor\$1) and (current near3 (control\$4 monitor\$3 sens\$3 detect\$3 determin\$5 evaluat\$4))	USPAT	OR	OFF	2004/12/28 10:49
S31	19	((electro\$5 electrical\$4) near3 condition\$3 near3 air) and ((second pair two) near3 conductor\$1) and (current near3 (control\$4 monitor\$3 sens\$3 detect\$3 determin\$5 evaluat\$4))	USPAT	OR	OFF	2004/12/28 10:50
S32	0	S31 and (current near3 (count\$3 increment\$3))	USPAT	OR	OFF	2004/12/28 10:52
S33	8	S31 and (current near3 (threshold\$1 limit\$3))	USPAT	OR	OFF	2004/12/28 10:51
S34	46	(arc\$3 near3 (suppress\$3 limit\$3 protect\$3)) and (current near3 (count\$3 increment\$3)) and ((second pair two) near3 (electrode\$1 conductor\$1))	USPAT	OR	OFF	2004/12/28 11:40
S35	57	((over near2 current) arc\$3) near3 (suppress\$3 limit\$3 protect\$3)) and (current near3 (count\$3 increment\$3)) and ((second pair two) near3 (electrode\$1 conductor\$1))	USPAT	OR	OFF	2004/12/28 16:28
S36	39	S35 and ((threshold\$1 limit\$3) near3 (current count\$3 increment\$3))	USPAT	OR	OFF	2004/12/28 11:34
S37	5	S36 and ((air gas) near3 (condition\$3 filter\$3 clean\$3))	USPAT	OR	OFF	2004/12/28 11:39
S38	5	S36 and ((air gas) near3 (condition\$3 filtration\$1 filter\$3 clean\$3))	USPAT	OR	OFF	2004/12/28 11:40
S39	5	S35 and ((air gas) near3 (condition\$3 filtration\$1 filter\$3 clean\$3))	USPAT	OR	OFF	2004/12/28 11:40
S40	5	S35 and ((air) near3 (condition\$3 filtration\$1 filter\$3 clean\$3))	USPAT	OR	OFF	2004/12/28 11:41
S41	74	(arc\$3 near3 (suppress\$3 limit\$3 protect\$3 prevent\$3)) and (current near3 (count\$3 increment\$3)) and ((second pair two) near3 (electrode\$1 conductor\$1))	USPAT	OR	OFF	2004/12/28 11:45
S42	11	S41 and ((air) near3 (condition\$3 filtration\$1 filter\$3 clean\$3))	USPAT	OR	OFF	2004/12/28 11:52
S43	6	S41 and ("422"/\$.cccls. "324"/\$.cccls.)	USPAT	OR	OFF	2004/12/28 11:45



S45	131	("1791338"   "1869335"   "2327588"   "2359057"   "2509548"   "2949550"   "3018394"   "3026964"   "3518462"   "3581470"   "3638058"   "3744216"   "3981695"   "3984215"   "4052177"   "4092134"   "4138233"   "4209306"   "4227894"   "4231766"   "4232355"   "4244710"   "4244712"   "4253852"   "4259452"   "4266948"   "4282014"   "4284420"   "4318718"   "4342571"   "4357150"   "4386395"   "4413225"   "4445911"   "4477263"   "4496375"   "4502002"   "4509958"   "4516991"   "4536698"   "4587475"   "4600411"   "4601733"   "4626261"   "4643745"   "4659342"   "4674003"   "4686370"   "4689056"   "4694376"   "4713093"   "4713724"   "4726812"   "4726814"   "4772297"   "4779182"   "4781736"   "4786844"   "4789801"   "4808200"   "4811159"   "4940470"   "4941068"   "5010869"   "5024685"   "5141529"   "5183480"   "5196171"   "5215558"   "5217504"   "5296019"   "5302190"   "5315838"   "5316741"   "5378978"   "5437713"   "5484472"   "5535089"   "5578112"   "5601636"   "5656063"   "5667564"   "5702507"   "5779769"   "5814135"   "5879435"   "5893977"   "5911957"   "5972076"   "5975090"   "6019815"   "6042637"   "6063168"   "6086657"   "6126722"   "6126727"   "6149717"   "6149815"   "6152146"   "6163098"   "6176977"   "6182461"   "6182671"   "6193852"   "6212883"   "6252012"   "6270733"   "6277248"   "6302944"   "6309514"   "6312507"   "6315821"   "6328791"   "6348103"   "6355415"   "6398897"   "6379427"   "6391259"   "6464754"   "6440007"	US-PGPUB; USPAT; USOCR	OR	OFF	2004/12/28 11:51
Search History 9/27/05 8:58:18 PM C:\Documents and Settings\Jefersinski\My Documents\EAST\workspaces\10625401.wsp						

S46	0	S45 and (((over near3 current) arc\$3) near3 fault\$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2004/12/28 11:52
S47	35	S45 and (((over near3 current) arc\$3))	US-PGPUB; USPAT; USOCR	OR	OFF	2004/12/28 11:52
S48	43	((air) near3 (condition\$3 filtration\$1 filter\$3 clean\$3 disinfect\$3 purification purif\$4 deodorization deodoriz\$3)) and (((over near3 current) arc\$3) near3 fault\$1)	USPAT	OR	OFF	2004/12/28 12:08
S49	0	S48 and (current near3 (count\$3 increment\$3)) and ((second pair two) near3 (electrode\$1 conductor\$1))	USPAT	OR	OFF	2004/12/28 11:54
S50	14	S48 and ((second pair two) near3 (electrode\$1 conductor\$1))	USPAT	OR	OFF	2004/12/28 11:54
S51	23	((air) near3 (condition\$3 filtration\$1 filter\$3 clean\$3 disinfect\$3 purification purif\$4 deodorization deodoriz\$3)) and (((over near3 current) arc\$3) near3 fault\$1 near3 (sens\$3 detect\$3 monitor\$3 determin\$5 evaluat\$3 test\$3))	USPAT	OR	OFF	2004/12/28 15:34
S52	1	"4789801".pn.	USPAT	OR	OFF	2004/12/28 12:35
S53	1	"4493289".pn.	USPAT	OR	OFF	2004/12/28 13:13
S54	2	"4493289".pn. "4388667".pn.	USPAT	OR	OFF	2004/12/28 13:13
S55	16	(electr\$5 adj kinetic\$5).ti.	USPAT	OR	OFF	2004/12/28 16:23
S56	2	S55 and ((current voltage) near3 (threshold\$1 limit\$3))	USPAT	OR	OFF	2004/12/28 14:45
S57	409	((air) near3 (condition\$3 filtration\$1 filter\$3 clean\$3 disinfect\$3 purification purif\$4 deodorization deodoriz\$3)) and (((over near3 current) arc\$3) near3 (sens\$3 detect\$3 monitor\$3 determin\$5 evaluat\$3 test\$3))	USPAT	OR	OFF	2004/12/28 15:35
S58	20	S57 and ((current voltage) near3 (absolute maximum second) near3 (limit\$3 threshold\$1))	USPAT	OR	OFF	2004/12/28 15:39
S59	136	S57 and ((current voltage) near3 (limit\$3 threshold\$1))	USPAT	OR	OFF	2004/12/28 15:45
S60	0	S59 and (remov\$3 near3 clean\$3 near3 (electrode\$1 conductor\$1))	USPAT	OR	OFF	2004/12/28 15:39
S61	0	S59 and ((remov\$3 replac\$6) near3 clean\$3 near3 (electrode\$1 conductor\$1))	USPAT	OR	OFF	2004/12/28 15:40



S62	5	S59 and ((remov\$3 replac\$6 clean\$3) near3 (electrode\$1 conductor\$1))	USPAT	OR	OFF	2004/12/28 15:40
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S63	131	("1791338"   "1869335"   "2327588"   "2359057"   "2509548"   "2949550"   "3018394"   "3026964"   "3518462"   "3581470"   "3638058"   "3744216"   "3981695"   "3984215"   "4052177"   "4092134"   "4138233"   "4209306"   "4227894"   "4231766"   "4232355"   "4244710"   "4244712"   "4253852"   "4259452"   "4266948"   "4282014"   "4284420"   "4318718"   "4342571"   "4357150"   "4386395"   "4413225"   "4445911"   "4477263"   "4496375"   "4502002"   "4509958"   "4516991"   "4536698"   "4587475"   "4600411"   "4601733"   "4626261"   "4643745"   "4659342"   "4674003"   "4686370"   "4689056"   "4694376"   "4713093"   "4713724"   "4726812"   "4726814"   "4772297"   "4779182"   "4781736"   "4786844"   "4789801"   "4808200"   "4811159"   "4940470"   "4941068"   "5010869"   "5024685"   "5141529"   "5183480"   "5196171"   "5215558"   "5217504"   "5296019"   "5302190"   "5315838"   "5316741"   "5378978"   "5437713"   "5484472"   "5535089"   "5578112"   "5601636"   "5656063"   "5667564"   "5702507"   "5779769"   "5814135"   "5879435"   "5893977"   "5911957"   "5972076"   "5975090"   "6019815"   "6042637"   "6063168"   "6086657"   "6126722"   "6126727"   "6149717"   "6149815"   "6152146"   "6163098"   "6176977"   "6182461"   "6182671"   "6193852"   "6212883"   "6252012"   "6270733"   "6277248"   "6302944"   "6309514"   "6312507"   "6315821"   "6328791"   "6348103"   "6351415"   "6396137"   "6379427"   "6391259"   "6464754"   "6440007"	US-PGPUB; USPAT; USOCR	OR	OFF	2004/12/28 15:45
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S64	35	S63 and (((over near3 current) arc\$3))	US-PGPUB; USPAT; USOCR	OR	OFF	2004/12/28 15:45
S65	11	S64 and ((current voltage) near3 (limit\$3 threshold\$1))	USPAT	OR	OFF	2004/12/28 16:25
S66	5	(electr\$5 adj kinetic\$5) near3 filter\$3	USPAT	OR	OFF	2004/12/28 16:24
S67	26	(electrokinetic\$5) near3 filter\$3	USPAT	OR	OFF	2004/12/28 16:24
S68	76	((electrokinetic\$5) near3 (condition\$3 filtration\$1 filter\$3 clean\$3 disinfect\$3 purification purif\$4 deodorization deodoriz\$3))	USPAT	OR	OFF	2004/12/28 16:24
S69	5	S68 and ((current voltage) near3 (limit\$3 threshold\$1))	USPAT	OR	OFF	2004/12/28 16:25
S70	34	("4789801").URPN.	USPAT	OR	OFF	2004/12/28 16:26

S71	131	("1791338"   "1869335"   "2327588"   "2359057"   "2509548"   "2949550"   "3018394"   "3026964"   "3518462"   "3581470"   "3638058"   "3744216"   "3981695"   "3984215"   "4052177"   "4092134"   "4138233"   "4209306"   "4227894"   "4231766"   "4232355"   "4244710"   "4244712"   "4253852"   "4259452"   "4266948"   "4282014"   "4284420"   "4318718"   "4342571"   "4357150"   "4386395"   "4413225"   "4445911"   "4477263"   "4496375"   "4502002"   "4509958"   "4516991"   "4536698"   "4587475"   "4600411"   "4601733"   "4626261"   "4643745"   "4659342"   "4674003"   "4686370"   "4689056"   "4694376"   "4713093"   "4713724"   "4726812"   "4726814"   "4772297"   "4779182"   "4781736"   "4786844"   "4789801"   "4808200"   "4811159"   "4940470"   "4941068"   "5010869"   "5024685"   "5141529"   "5183480"   "5196171"   "5215558"   "5217504"   "5296019"   "5302190"   "5315838"   "5316741"   "5378978"   "5437713"   "5484472"   "5535089"   "5578112"   "5601636"   "5656063"   "5667564"   "5702507"   "5779769"   "5814135"   "5879435"   "5893977"   "5911957"   "5972076"   "5975090"   "6019815"   "6042637"   "6063168"   "6086657"   "6126722"   "6126727"   "6149717"   "6149815"   "6152146"   "6163098"   "6176977"   "6182461"   "6182671"   "6193852"   "6212883"   "6252012"   "6270733"   "6277248"   "6302944"   "6309514"   "6312507"   "6315821"   "6328791"   "6348103"   "6350416"   "6398207"   "6379427"   "6391259"   "6464754"   "6440007"	US-PGPUB; USPAT; USOCR	OR	OFF	2004/12/28 16:26
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S72	7	S71 and (((over near2 current) arc\$3) near3 (suppress\$3 limit\$3 protect\$3 avoid\$3))	USPAT	OR	OFF	2004/12/30 12:56
S73	14563	((air fluid\$1) (condition\$3 filtration\$1 filter\$3 clean\$3 disinfect\$3 purification purif\$4 deodorization deodoriz\$3)) and (arc\$3 near4 (suppress\$4 limit\$3 prevent\$3 protect\$3))	USPAT	OR	OFF	2004/12/28 17:06
S74	902	((air fluid\$1) near3 (condition\$3 filtration\$1 filter\$3 clean\$3 disinfect\$3 purification purif\$4 deodorization deodoriz\$3)) and (arc\$3 near4 (suppress\$4 limit\$3 prevent\$3 protect\$3))	USPAT	OR	OFF	2004/12/28 17:06
S75	25	S74 and (control\$4 near3 (current voltage\$1) near3 (conductor\$1 electrode\$1))	USPAT	OR	OFF	2004/12/28 17:07
S76	35	("5326530").URPN.	USPAT	OR	OFF	2004/12/28 17:12
S77	0	S76 and ((current voltage) near3 (increment\$3 count\$3))	USPAT	OR	OFF	2004/12/28 17:12
S78	0	(electrokinetic electro-kinetic) and (((over near3 current) arc\$3) near3 fault\$1 near3 (sens\$3 detect\$3 monitor\$3 determin\$5 evaluat\$3 test\$3))	USPAT	OR	OFF	2004/12/28 17:31
S79	0	(electrokinetic\$4 (electr\$4 adj kinetic\$4)) and (((over near3 current) arc\$3) near3 fault\$1 near3 (sens\$3 detect\$3 monitor\$3 determin\$5 evaluat\$3 test\$3))	USPAT	OR	OFF	2004/12/28 17:32
S80	133	(((over near3 current) arc\$3) near3 fault\$1 near3 (sens\$3 detect\$3 monitor\$3 determin\$5 evaluat\$3 test\$3)) and ((electrode\$1 conductor\$1 plate\$1) near3 (plate\$1 pair two))	USPAT	OR	OFF	2004/12/28 17:32
S81	20	("2590447"   "4496375"   "4632135"   "4643745"   "4713724"   "4789801"   "4811159"   "4941068"   "5010869"   "5024685"   "5072746"   "5215558"   "5386839"   "5484472"   "5535089"   "5569368"   "5601636"   "5656063"   "5779769").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/12/30 12:54
S82	1	S81 and (((over near2 current) arc\$3) near3 (suppress\$3 limit\$3 protect\$3 avoid\$3))	USPAT	OR	OFF	2004/12/30 13:05
S83	29	("4496375").URPN.	USPAT	OR	OFF	2004/12/30 12:58

S84	0	S83 and (((over near2 current) arc\$3) near3 (suppress\$3 limit\$3 protect\$3 avoid\$3))	USPAT	OR	OFF	2004/12/30 13:05
S85	0	S83 and (((over near2 current) arc\$3) near3 (sens\$3 detect\$3 suppress\$3 limit\$3 protect\$3 avoid\$3))	USPAT	OR	OFF	2004/12/30 13:06
S86	0	S83 and (((over near2 current) arc\$3) near3 (sens\$3 detect\$3 suppress\$3 limit\$3 protect\$3 avoid\$3 fault\$1))	USPAT	OR	OFF	2004/12/30 13:08
S87	34	("4789801").URPN.	USPAT	OR	OFF	2004/12/30 13:07
S88	3	S87 and (((over near2 current) arc\$3) near3 (sens\$3 detect\$3 suppress\$3 limit\$3 protect\$3 avoid\$3 fault\$1))	USPAT	OR	OFF	2004/12/30 13:19
S89	0	((electokinetic\$3 (electro adj kinetic\$3)) with (reset\$4 shut\$4)) and (((over near2 current) arc\$3) near3 (sens\$3 detect\$3 suppress\$3 limit\$3 protect\$3 avoid\$3 fault\$1))	USPAT	OR	OFF	2004/12/30 13:19
S90	1	((electokinetic\$3 (electro adj kinetic\$3))) and (((over near2 current) arc\$3) near3 (sens\$3 detect\$3 suppress\$3 limit\$3 protect\$3 avoid\$3 fault\$1))	USPAT	OR	OFF	2004/12/30 13:19
S91	25	S87 and ((over near2 current) arc\$3)	USPAT	OR	OFF	2004/12/30 13:20
S92	2	S91 and ((shut\$4 near2 down) reset\$3)	USPAT	OR	OFF	2004/12/30 13:20

S93	113	("1888606"   "20010004046"   "20010032544"   "20010048906"   "20020079212"   "20020098131"   "20020141914"   "2949550"   "3108394"   "3267860"   "3374941"   "3518462"   "3582694"   "3638058"   "3675096"   "3699387"   "3751715"   "3896347"   "3936635"   "3983393"   "4008057"   "4011719"   "4061961"   "4086650"   "4124003"   "4156885"   "4162144"   "4194888"   "4210847"   "4231766"   "4240809"   "4246010"   "4266948"   "4267502"   "4292493"   "4313741"   "4335414"   "4351648"   "4379129"   "4380720"   "4388274"   "4390831"   "4567541"   "4587541"   "4600411"   "4643745"   "4673416"   "4689056"   "4719535"   "4789801"   "4812711"   "4837658"   "4853719"   "4853735"   "4924937"   "4941353"   "4980611"   "4996473"   "5012159"   "5024685"   "5055118"   "5077500"   "5155524"   "5245692"   "5302190"   "5330559"   "5469242"   "5474599"   "5556448"   "5578112"   "5661299"   "5667564"   "5707428"   "5769155"   "5814135"   "5827407"   "5892363"   "5899666"   "5951957"   "5973905"   "5982102"   "5993521"   "6042637"   "6056808"   "6084350"   "6125636"   "6145298"   "6152146"   "6163098"   "6167196"   "6176977"   "6182671"   "6200539"   "6203600"   "6210642"   "6245126"   "6245132"   "6312507"   "6313064"   "6350417"   "D411001"   "D420438"   "D427300"   "D433494"   "D434483"   "D438513"   "D440290").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/12/30 13:22
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S94	1	"4376642".PN.	USPAT; USOCR	OR	OFF	2004/12/30 13:54
S95	1	(electokinetic\$3 (electro adj kinetic\$3)) and (((over near2 current) arc\$3) near3 (sens\$3 detect\$3 suppress\$3 limit\$3 protect\$3 avoid\$3 fault\$1))	USPAT	OR	OFF	2005/01/03 15:50
S96	3	(electokinetic\$3 (electro adj kinetic\$3)) and (((over near2 current) arc\$3) with (sens\$3 detect\$3 suppress\$3 limit\$3 protect\$3 avoid\$3 fault\$1))	USPAT	OR	OFF	2005/01/03 15:52
S97	3514	(electokinetic\$3 (electro adj kinetic\$3) ioniz\$5) and (((over near2 current) arc\$3) with (sens\$3 detect\$3 suppress\$3 limit\$3 protect\$3 avoid\$3 fault\$1))	USPAT	OR	OFF	2005/01/03 15:52
S98	1903	(electokinetic\$3 (electro adj kinetic\$3) ioniz\$5) and (((over near2 current) arc\$3) near3 (sens\$3 detect\$3 suppress\$3 limit\$3 protect\$3 avoid\$3 fault\$1))	USPAT	OR	OFF	2005/01/03 15:52
S99	980	S98 and ((pair second two) near3 (conductor\$1 blade\$1 electrode\$1 filter\$1 plate\$1))	USPAT	OR	OFF	2005/01/03 15:54
S100	240	S99 and ((remov\$4 clean\$3 replac\$5) near3 (conductor\$1 blade\$1 electrode\$1 filter\$1 plate\$1))	USPAT	OR	OFF	2005/01/04 11:06
S101	1903	(electokinetic\$3 (electro adj kinetic\$3) ioniz\$5) and (((over near2 current) arc\$3) near3 (sens\$3 detect\$3 suppress\$3 limit\$3 protect\$3 avoid\$3 fault\$1))	USPAT	OR	OFF	2005/01/04 11:33
S102	980	S101 and ((pair second two) near3 (conductor\$1 blade\$1 electrode\$1 filter\$1 plate\$1))	USPAT	OR	OFF	2005/01/04 11:07
S103	341	S102 and (((over near2 current) arc\$3) near3 (threshold limit\$3))	USPAT	OR	OFF	2005/01/04 11:09
S104	82	S102 and (((over near2 current) arc\$3) near3 (rest\$4 (shut\$3 near3 down)))	USPAT	OR	OFF	2005/01/04 11:09
S105	13	S102 and (((over near2 current) arc\$3) near3 (reset\$4 (shut\$3 near3 down)))	USPAT	OR	OFF	2005/01/04 11:09
S106	20	("5009764").URPN.	USPAT	OR	OFF	2005/01/04 11:25



S10 7	33	(electokinetic\$3 (electro adj kinetic\$3) ioniz\$5) and (((over near2 current) arc\$3) near3 tim\$3 near3 (threshold limit\$3))	USPAT	OR	OFF	2005/01/04 11:34
S10 8	0	S107 and (second near3 tim\$3 near3 (threshold limit\$3))	USPAT	OR	OFF	2005/01/04 11:58
S10 9	1	"4610775".pn.	USPAT	OR	OFF	2005/01/04 11:58
S11 0	1	"4900414".pn.	USPAT	OR	OFF	2005/01/04 13:22
S11 1	1	"6043639".pn.	USPAT	OR	OFF	2005/01/04 16:15
S11 2	0	(air near3 flow\$3) and ((measur\$5 sens\$3 detect\$3) near3 arc near3 fault\$1) and (threshold with count\$3)	USPAT	OR	OFF	2005/07/06 22:17
S11 3	0	(air near3 flow\$3) and ((measur\$5 sens\$3 detect\$3 determin\$4 suppress\$4) near3 (overcurrent arc) near3 fault\$1) and (threshold with count\$3)	USPAT	OR	OFF	2005/07/06 22:18
S11 4	0	(air) and (electro adj kinetic) and ((measur\$5 sens\$3 detect\$3 determin\$4 suppress\$4) near3 (overcurrent arc) near3 fault\$1) and (threshold with count\$3)	USPAT	OR	OFF	2005/07/06 22:18
S11 5	0	(air) and (electro adj kinetic) and ((measur\$5 sens\$3 detect\$3 determin\$4 suppress\$4) near3 (overcurrent arc) near3 fault\$1) and (threshold with count\$3)	US-PGPUB; USPAT	OR	ON	2005/07/06 22:18
S11 6	0	(air) and (electro adj kinetic) and ((measur\$5 sens\$3 detect\$3 determin\$4 suppress\$4 prevent\$4) near3 (overcurrent arc) near3 fault\$1) and (threshold with count\$3)	US-PGPUB; USPAT	OR	ON	2005/07/06 22:18
S11 7	0	(air) and (electro adj kinetic) and ((overcurrent arc) near3 fault\$1) and (threshold with count\$3)	US-PGPUB; USPAT	OR	ON	2005/07/06 22:18
S11 8	0	(air) and (electro adj kinetic) and ((measur\$5 sens\$3 detect\$3 determin\$4 suppress\$4 prevent\$4) near3 (overcurrent arc) near3 fault\$1) and (threshold	US-PGPUB; USPAT	OR	ON	2005/07/06 22:19

S11 9	0	(air) and (electro adj kinetic) and ((measur\$5 sens\$3 detect\$3 determin\$4 suppress\$4 prevent\$4) near3 (overcurrent arc) near3 fault\$1) and (threshold limit)	US-PGPUB; USPAT	OR	ON	2005/07/06 22:19
S12 0	0	(electro adj kinetic) and ((measur\$5 sens\$3 detect\$3 determin\$4 suppress\$4 prevent\$4) near3 (overcurrent arc) near3 fault\$1) and (threshold limit)	US-PGPUB; USPAT	OR	ON	2005/07/06 22:19
S12 1	0	(electro adj kinetic) and ((measur\$5 sens\$3 detect\$3 determin\$4 suppress\$4 prevent\$4) near3 (overcurrent arc) near3 fault\$1)	US-PGPUB; USPAT	OR	ON	2005/07/06 22:19
S12 2	0	(electrokinetic) and ((measur\$5 sens\$3 detect\$3 determin\$4 suppress\$4 prevent\$4) near3 (overcurrent arc) near3 fault\$1)	US-PGPUB; USPAT	OR	ON	2005/07/06 22:19
S12 3	612	((measur\$5 sens\$3 detect\$3 determin\$4 suppress\$4 prevent\$4) near3 (overcurrent arc) near3 fault\$1)	US-PGPUB; USPAT	OR	ON	2005/07/06 22:20
S12 4	17	S123 and (air near3 flow\$3)	US-PGPUB; USPAT	OR	ON	2005/07/06 22:20
S12 5	16	S124 and (threshold limit\$1)	US-PGPUB; USPAT	OR	ON	2005/07/06 22:29
S12 6	63	("1791338" "1869335" "20020190658" "20040052700" "20040065202" "20040136863" "20040166037" "20040226447" "20040234431" "20040237787" "20040251124" "20040251909" "20050000793" "3374941" "3540191" "3581470" "4092134" "4102654" "4253852" "4686370" "4726814" "4772297" "4786844" "4955991" "4967119" "4976752" "5006761" "5012093" "5012159" "5053912" "5077500" "5180404" "5183480" "5248324" "5266004" "5290343" "5296019" "5435817" "5437713" "5532798" "5641342" "5698164" "5980614" "5993521" "6117216" "6126727" "6203600" "6348103" "6398852" "6464754" "6494940" "6508982" "6603268" "6613277" "6635105" "0653421" "0995958" "D315598" "D329284" "D332655" "D375546" "D377523" "D389567").PN.	US-PGPUB; USPAT	OR	ON	2005/07/06 22:30

S12 7	6	S126 and (arc overcurrent (over adj current))	US-PGPUB; USPAT	OR	ON	2005/07/06 22:38
S12 8	14	96/16.ccls. and (arc overcurrent)	US-PGPUB; USPAT	OR	ON	2005/07/06 22:46
S12 9	31	("3653185").URPN.	USPAT	OR	OFF	2005/07/06 22:44
S13 0	0	"I21." and (arc overcurrent)	US-PGPUB; USPAT	OR	ON	2005/07/06 22:46
S13 1	11	S129 and (arc overcurrent)	US-PGPUB; USPAT	OR	ON	2005/07/06 23:17
S13 2	33392	(air with (condition\$3 flow)) and (arc overcurrent corona)	US-PGPUB; USPAT	OR	ON	2005/07/06 23:17
S13 3	184	S132 and (count\$3 near3 (threshold limit (shut\$4 adj off)))	US-PGPUB; USPAT	OR	ON	2005/07/06 23:18
S13 4	6	S133 and ((arc overcurrent corona) near3 (time period))	US-PGPUB; USPAT	OR	ON	2005/07/06 23:34
S13 5	29	(hvac) and ((arc overcurrent corona) near3 (time period duration))	US-PGPUB; USPAT	OR	ON	2005/07/06 23:34
S13 6	31	("3653185").URPN.	USPAT	OR	OFF	2005/07/07 22:56
S13 7	4	S136 and ((remov\$3 clean\$3) near3 electrode\$1)	USPAT	OR	OFF	2005/07/07 23:05
S13 8	4	((air gas) near3 ioniz\$5) and ((arc corona overcurrent) near3 (sens\$3 detect\$3)) and ((second additional plurality) near3 (arc corona overcurrent) near3 (count\$3 time))	USPAT	OR	OFF	2005/07/07 23:26
S13 9	10	((air gas) near3 ioniz\$5) and ((arc corona overcurrent) near3 (sens\$3 detect\$3)) and ((second additional plurality) near3 (arc corona overcurrent) near3 (count\$3 time))	US-PGPUB; USPAT	OR	ON	2005/07/07 23:28

S14 0	387	("1791338" "1869335" "20020190 658" "20040052700" "200400652 02" "20040136863" "2004016603 7" "20040226447" "20040234431"  "20040237787" "20040251124" " 20040251909" "20050000793" "3 374941" "3540191" "3581470" "4 092134" "4102654" "4253852" "4 686370" "4726814" "4772297" "4 786844" "4955991" "4967119" "4 976752" "5006761" "5012093" "5 012159" "5053912" "5077500" "5 180404" "5183480" "5248324" "5 266004" "5290343" "5296019" "5 435817" "5437713" "5532798" "5 641342" "5698164" "5980614" "5 993521" "6117216" "6126727" "6 203600" "6348103" "6398852" "6 464754" "6494940" "6508982" "6 603268" "6613277" "6635105" "0 653421" "0995958" "D315598" "D 329284" "D332655" "D375546" " D377523" "D389567")	US-PGPUB; USPAT	OR	ON	2005/07/07 23:27
S14 1	4	S140 and ((arc corona overcurrent) near3 (sens\$3 detect\$3 protect\$3)) and ((arc corona overcurrent) near3 (count\$3 time))	US-PGPUB; USPAT	OR	ON	2005/07/07 23:30
S14 2	11	(air near3 filter) and ((arc corona overcurrent) near3 (sens\$3 detect\$3 protect\$3)) and ((arc corona overcurrent) near3 (count\$3 time))	US-PGPUB; USPAT	OR	ON	2005/07/07 23:30
S14 3	8	("5280404"   "5418463"   "5432455"   "5619105"   "5629824"   "5706159").PN. OR ("6115230").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/07/07 23:36
S14 4	8	("5280404"   "5418463"   "5432455"   "5619105"   "5629824"   "5706159").PN. OR ("6115230").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/07/07 23:36